Title (en)

LOW-PRESSURE SODIUM VAPOUR DISCHARGE LAMP

Publication

EP 0011346 B1 19830209 (EN)

Application

EP 79200666 A 19791113

Priority

NL 7811350 A 19781117

Abstract (en)

[origin: US4277717A] A low-pressure sodium vapor discharge lamp having a tubular discharge vessel (1) not more than 400 mm long and not more than 20 mm in diameter, which contains anexcess of sodium, helium and at least one of the rare gases neon, argon, krypton and xenon. The object of the invention is to provide a small low-pressure sodium vapor discharge lamp which has a lower power consumption than a similar known lamp. The composition of the rare gas filling present in the discharge vessel is defined by a quadrilateral AB CD in a ternary volume composition diagram PQR shown in FIG. 1, where P represents He, Q represents Ne and/or A and R represents Kr and/or Xe. A denotes a mixture consisting of 80% by volume of He and 20% by volume of Ne, B denotes a mixture consisting of 95% by volume of He and 5% by volume of Kr and/or Xe, C denotes a mixture consisting of 50% by volume of He and 50% by volume of Kr and/or Xe, and D denotes a mixture consisting of 25% by volume of He and 75% by volume of Ne and/or A.

IPC 1-7

H01J 61/74; H01J 61/12

IPC 8 full level

H01J 61/16 (2006.01); **H01J 61/22** (2006.01)

CPC (source: EP US)

H01J 61/22 (2013.01 - EP US)

Cited by

EP0129288A1; EP0330808A1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0011346 A1 19800528; **EP 0011346 B1 19830209**; CA 1135764 A 19821116; DE 2964748 D1 19830317; JP S5572353 A 19800531; NL 7811350 A 19800520; US 4277717 A 19810707

DOCDB simple family (application)

EP 79200666 A 19791113; CA 339962 A 19791115; DE 2964748 T 19791113; JP 14788479 A 19791116; NL 7811350 A 19781117; US 9512979 A 19791115